

KEDROV, F.; BELOVA, L.V., red.

[Ernest Rutherford] Ernest Rezerford. Moskva, Atomizdat,
1965. 110 p. (MIRA 19:1)

KEDROV, G.B.

Accretion of wood in the European ash (*Fraxinus excelsior* L.) as related to growing conditions. Nauch. dokl. vys. shkoly; biol. nauki no.4:114-122 '61. (MIRA 14:11)

1. Rekomendovana kafedroy vysshikh rasteniy Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.

(VORONEZH PROVINCE--ASH (TREE))
(GROWTH (PLANTS)) (WOOD)

KEDROV, G.B.

Characteristics of the increment wood in European ash after defoliation. Biul. MOIP. Otd. biol. 68 no.2:91-98 Mr-Ap '63.
(MIRA 17:2)

KEDROV, J.

"Determining the thermal properties of shoes. Tr. from the Russian."

p. 352 (kozarstvi) Vol. 7, no. 12, Dec. 1957
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

NEPROM, L.V.

NEPROM, L.V.

Determining properties of heat exchange in footwear. Leg.prom.
17 no.7:14-16 of '67. (MLRA 10:9)
(Shoe industry) (Heat-transmission)

~~KEDROV, L.V.~~

Calculating the heat exchange properties of footwear. Leg. prom.
17 no.10:14-17 0 '57. (MIRA 10:12)
(Shoe industry) (Heat--Transmission)

KEDROV, L.V., inzh.

Investigating heat insulating properties of shoes to wear out
of doors. Nauch.-issl. trudy TSNIKP no.28:60-100 '57.

(MIRA 11:10)

(Shoe manufacture)

KEDROV, L.V.; LEYTES, L.G.

Winter street footwear with uppers made of half-wool fabrics. Leg.
prom. 18 no.2:11-12 F '58. (MIRA 11:2)

(Shoe manufacture)

KEDROV, L.V., Cand Tech Sci -- (russ) "Study of the heat-protecting
properties of shoes for street wear." Mos, 1958, 15 pp (in o"
Higher Education USSR. Mos Tech Inst of ~~Light~~ Light Industry) 130 copies
(KL, 27-58, 109)

- 136 -

VOROB'YEVA, A.A.; YEZERSKIY, G.Ye .; KARASIN, Z.B.; KEDROV, L.B.; LEYTES,
L.G.

New fabrics used for warm shoe uppers. Leg. prom. 18 no.3:9-10 Mr
'58. (MIRA 11:4)

(Shoe manufacture)

possibly L.V. Kedrov

KEDROV, L.V.; LIPKOV, I.A.

Manufacturing winter shoes with mesh linings for warmth. Kozh.-
obuv.prom. no.6:15-19 Je '59. (MIRA 12:9)
(Shoe manufacture)

KARPUNINA, T.T.; KEDROV, L.V.; REPIN, G.N.; SHIBANOV, N.M.

Hygienic evaluation of new types of heat-insulated shoes for
workers in cold storage plants. Gig. i san. 25 no. 6:33-39
Je '60. (MIRA 14:2)

1. Iz Instituta gigiyeny truda i professional'nykh zabolevaniy
AMN SSSR i Tsentral'nogo nauchno-issledovatel'skogo instituta
kozhevenno-obuvnoy promyshlennosti.
(BOOTS AND SHOES) (COLD STORAGE—HYGIENIC ASPECTS)

KEDROV, L.V.; SERGEYEVA, G.V.; KOZLOVA, Z.V.; PASTUKHOVA, T.S.

Characteristics of the manufacture and wearing properties of various types of footwear formed by the assembly method without lacing. Nauch.-issl.trudy TSNIKP no.32:71-79 '60.

(MIRA 15:12)

(Shoe manufacture)

KEDROV, Ley Vasil'yevich; MURVANIDZE, D.S., retsenzent; GABOVA, D.M.,
red.; TRISHINA, L.A., tekhn. red.

[Warm footwear; insulating properties and characteristics of
design] Uteplennaya obuv'; teplozashchitnye svoystva, osoben-
nosti konstruktsii. Moskva, Rostekhzdat, 1962. 207 p.

(MIRA 15:7)

(Boots and shoes) (Clothing, Cold weather)

KEDROV, L.V.

Comparative characteristics of the dielectric properties of
shoe materials. Nauch.-issl. trudy TSNIKP no.33s107-116 '83
(MIRA 18s1)

25(6)

SOV/28-59-3-6/25

AUTHOR: Kedrov, L.V., Engineer

TITLE: Evaluation of Heat-Keeping Properties of Footwear
(Otsenka teplozashchitnykh svoystv obuvi)

PERIODICAL: Standartizatsiya, 1959, ¹³Nr 3, pp 26 - 27 (USSR)

ABSTRACT: A new method of evaluating the heat-keeping properties of footwear is described and recommended for a state standard. It was devised at the Tsentral'nyy nauchno-issledovatel'skiy institut kozhevenno-obuvnoy promyshlennosti (TsNIKP) (Central Scientific Research Institute of the Leather and Footwear Industry), by Professor G.M. Kondrat'yev, and consists in the measurement of the heat loss through the shoe with the use of a thin rubber balloon inserted into the shoe under test and filled with warm water that is being continually stirred. With an insulated cover placed on the top of the shoe with the water-filled

Card 1/2

KEDROV, M.

Stages of world championship in the U.S.S.R. Za rul. 20
no.1:32 Ja '62. (MIRA 15:2)

1. Otvetstvennyy sekretar' Federatsii avtomotспорта SSSR.
(Motorcycle racing)

KEDROV, N., podpolkovnik tekhnicheskoy sluzhby

Pumping equipment for servicing vehicles and for unloading tank
cars functioned without interruption. Tyl i snab.Sov.Voor Sil 21
no.2:75-77 F '61. (MIRA 14:6)

(Pumping machinery--Cold weather operation)

KEDROV, P., inzhener.

Conservatism in work techniques and organisation. Mast.ugl.5 no.2:
10-12 P '56. (MLRA 9:6)
(Chelyabinsk Basin--Coal mines and mining) (Mine management)

MAMEDOV, Alesker Israfilovich; KEDROV, P.I., redaktor

[Supplying electricity to offshore oil fields] Elektrosnabzhenie
neftianykh promyslov v usloviakh moria. Baku, Azerbaidzanskoe gos.
izd-vo neftianoi i nauchno-tekhn. lit-ry, 1956. 175 p. (MLRA 9:7)
(Electric engineering) [Microfilm]
(Petroleum industry)

MAMEDOV, A.I.; KEDROV, P.I., red.

[Method for calculating electric lines for offshore oil fields] Metodika rascheta elektricheskikh setei dlia morskikh neftepromyslov. Baku, Azerneshr, 1960. 203 p.
(MIRA 18:10)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721420004-1"

KEDROV, P., red.

Automation creates unemployment. IUn.tekh. 6 no.3:42-45 Mr :62.
(MIRA 15:4)

(United States—Automation—Economic aspects)

27

S

Experimental Work on the Superfinishing of Bearing Races. N. M. Kedrov. (Vestnik Metallopromyshlennosti, 1940, No. 4 5, pp. 63-67). (In Russian). Different Russian abrasives used in finishing the surfaces of bearings were tested with a view to selecting the most suitable material and determining the optimum operating conditions and lubricants, the best way of preparing the surface, and the dimensional changes involved in superfinishing.

ABSTRACTS OF THE LITERATURE CLASSIFICATION

FROM SOURCE

RESEARCH

FROM SOURCE

KEDROV, S. M.

Senior Scientific Associate at the ENIMS (-1943-).

"Review of Diamondless Truing of Grinding Wheels" by Berlin, S. G.; Levyatov, D. S.; Alfansas'yev, P. P.; Tokar', I. Ye.; and Roizman, L. S.; Engineers. Stanki I Instrument, 14, No. 3, 1943.

BR-52059019

KEDROV, S. M.

Cand. Technical Sci. (-1943-)

"Review of P. Ye. D'Yachenko Superfinish v Mashinostroyenii" (Superfinish in Machine Building), Moscow, 1942, Stanki i Instrument, 14, No. 9-10, 1943.

BR-52059019

KEDROV, S. M.

"Of What Materials can Feed Wheels for Centerless Grinding Machines Be Made?"
Stanki i Instrument, 15, No. 4-5, 1944.

BR-52059019

KEDROV, S. M.

Senior Scientific Associate, ENIMS (-1944-)

Candidate in Technical Sciences

"Grinding Balls of Large Diameter on a Simple Centerless Cylinder-and-Cone
Grinding Machine," Stanki I Instrument, 15, Nos. 7-8, 1944

BR 52059019

KEDROV, S. M.

"A Cleaner for Coolant Used in Grinding and Honing," (Arthur Scrivener Ltd.)
Stanki I Instrument, 17, Nos. 2-3, 1946

BR-52059019

KEDROV, S. M.

ENIMS (-1946-)

Candidate of Technical Sciences

"The Automatization of Circular In-Feed Grinding," Stanki i Instrument, 17, No. 6, 1946

BR-52059019

5

27

PROCESSES AND PROPERTIES INDEX

Centreless Grinding of Formed Parts. S. M. Kozlov. (Stanki i Instrument, 1948, No. 2, pp. 20-27). [In Russian]. A description is given of the grinding of bicycle parts on a centreless grinding machine of British manufacture. S. K.

ASME-A METALLURGICAL LITERATURE CLASSIFICATION

KEDROV, S. M.

26394 Zksperimental'noye superfinishirovaniye sheyek shpindeley stankov. Stanki i instrument, 1949, No. 8, s. 15-16.

SO: LETOPIS' NO. 35, 1949

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26													27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50												
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1ST AND 2ND ORDERS													PROCESSES AND PROPERTIES INDEX												
<p>20B-167. Experimental Investigation of Honing of Cylinder Bore. (in Russian.) S. M. Kedrov. <i>Stanki i Instrumenty</i> (Machine Tools and Equipment), v. 20, May 1949, p. 6-10.</p> <p>Experiments were performed on steel and cast-iron cylinders of 90-mm. diameter and 600-mm. length. Method of calculating optimum design of honing machine.</p>																									
<p>ASA S.A. METALLURGICAL LITERATURE CLASSIFICATION</p>																									

1. KEDROV, S. M.
2. USSR (600)
4. Grinding and Polishing
7. Lapping machines. Stan. i instr. 23 no. 9, 1952
9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

KEDROV, S. M.

"Methods and Programme of Testing Centreless grinding Machines for Precision in Production."

"Data for a method of Experiment on Centreless Grinding Machines and Finding the Effect of Adjustments and drag (braking) of Components on the Precision of Centreless Grinding."

reports read at the seminar of the Laboratory of Machine and Instrument Precision, Inst. of Machine Science, Acad. Sci. USSR, in 1952 and the first half of 1953.

In the first paper he described the main sources of errors in articles in centreless grinding and defined the problems for further research with the object of improving accuracy in grinding on centreless machines; in the second paper, to increase the rate (density) of the flow of wheels in the machine, S. M. Kedrov suggested a scheme of operating the machine whereby the direction of rotation of the leading sweep (disc) was changed and the working conditions of the leading sweep (disc) was transferred from braking to driving.

reported in Izv. Ak. Nauk SSSR, OTN, 12, 1888-91, 1953

USSR/ Miscellaneous - Metal finishing

Card : 1/1

Authors : Kedrov, S. M.

Title : ~~Methods for speeding-up the grinding of metals~~
Methods for speeding-up the grinding of metals

Periodical : Stan. i Instr., Ed. 6, 1 - 7, June 54.

Abstract : Methods of grinding and polishing metal components, with the aid of liquid and solid abrasives, were investigated. Investigations of these methods were based on reference works of P. A. Rebinder and I. V. Grebeshchikov, pertaining to the activity of surface-active agents on metal dispersion, and physical phenomena occurring during grinding processes. The article is not complete and is to be continued. Drawings; diagrams.

Institution : ...

Submitted : ...

KEDROV, S. M.

USSR/ Miscellaneous - Metal finishing

Card : 1/1

Authors : Kedrov, S. M.

Title : Methods for speeding-up the grinding of metals (continuation from
"Stan 1 Instr., Ed. 6, 1954)

Periodical : Stan. 1 Instr., Ed. 7, 17 - 20, July 1954

Abstract : Additional information is given on grinding and polishing of metal
components with the aid of liquid and solid abrasives. The grinding
of components with grindstones and abrasives charged with various
chemical agents, is described. Graphs; illustrations.

Institution :

Submitted :

ANTIPOV, K.F., inzhener; BALAKSHIN, B.S., doktor tekhnicheskikh nauk, professor; BARYLOV, G.I., inzhener; BEYZEL'MAN, B.D., inzhener; BERDICHEVSKIY, Ya.G., inzhener; BOBKOV, A.A., inzhener, KALININ, M.A., kandidat tekhnicheskikh nauk; KOVAN, V.M., doktor tekhnicheskikh nauk, professor; KOROL'OV, V.S., doktor tekhnicheskikh nauk; KOSILOVA, A.G., kandidat tekhnicheskikh nauk; KURYAVTSEV, K.T., doktor khimicheskikh nauk, professor; KURYSHEVA, Ye.S., inzhener; LAKHTIN, Yu.M., doktor tekhnicheskikh nauk, professor; NAYERMAN, M.S., inzhener; NOVIKOV, M.P., kandidat tekhnicheskikh nauk; PARIY-SKIY, M.S., inzhener; PEREPOROV, M.N., inzhener; POPILOV, L.Ya., inzhener; POPOV, V.A., kandidat tekhnicheskikh nauk; SAVERIN, M.M., doktor tekhnicheskikh nauk, professor; SASOV, V.V., kandidat tekhnicheskikh nauk; SATAL, E.A., doktor tekhnicheskikh nauk, professor; SOKOLOVSKIY, A.P., doktor tekhnicheskikh nauk, professor [deceased]; STANKOVICH, V.G., inzhener; TRUMIN, Yu.I., inzhener; ZHERNOY, P.I., inzhener; TSEYTLIN, L.B., inzhener; SHUKHOV, Yu.V., kandidat tekhnicheskikh nauk; BABKIN, S.I., kandidat tekhnicheskikh nauk; GORODETSKIY, I.Ye., VOLKOV, S.I., kandidat tekhnicheskikh nauk; GOROSHKIN, A.K., inzhener; DOSCHATOV, V.V., kandidat tekhnicheskikh nauk; ZAMALIN, V.S., inzhener; ISAYEV, A.I., doktor tekhnicheskikh nauk, professor; KEDROV, S.M., kandidat tekhnicheskikh nauk; MALOV, A.M., kandidat tekhnicheskikh nauk; MARDANYAN, M.Ye., inzhener; PANCHENKO, K.P., kandidat tekhnicheskikh nauk; SEKRTEV, D.N., inzhener; STAYEV, K.P., kandidat tekhnicheskikh nauk; SYROVATCHENKO, P.V., inzhener; TAURIT, G.S., inzhener; AL'YASHEVA, M.A., kandidat tekhnicheskikh nauk;

(Continued on next card)

GUMENOV, G.I., redaktor; DIMITROV, V.V., glavni
redaktor; GRANKO, B.V., redaktsionnyy sekretar'
Izdatel'stvo: SOKOLOVA, T.S., tsekhovskiy

(Machine builder's manual) Spent. (Machine builder's manual) Spent.
v dvazek tozch, red.sovet V.M. v. 1. (Machine builder's manual) Spent.
i G. Hosten, Gos.nauchno-tekhn.izdat. (Machine builder's manual) Spent.
Vol. 1. (Sol red. S.G. Kostikov) (Machine builder's manual) Spent.
Moscow, 1954. 534 p. (Machine builder's manual) Spent.
(Machine builder's manual) Spent.

KEDROV, S.M.

Experimental investigation of centerless grinding with wide wheels.
Stan.1 instr. 27 no.12:20-23 D '56. (MLRA 10:2)
(Grinding and polishing)

KEDROV, S.M.

~~KEDROV, S.M.~~

Investigating the mechanical lapping of metals. Trudy Sem. po kach.
poverkh. no.3:131-144 '57. (MLRA 10:11)
(Grinding and polishing)

KEDROV, S.M.

Experimental investigation of polishing by sandpaper. Stan.i instr.
29 no.6:22-24 Je '58. (MIRA 11:7)
(Grinding and polishing)

IPPOLITOV, Georgiy Mikhaylovich; MALKIN, A.Ya., prof., doktor tekhn.
nauk, retsenzent; KEDROV, S.M., inzh., kand.tekhn.nauk, red.;
IVANOVA, N.A., red.izd-va; EL'KIND, V.D., tekhn.red.

[Abrasive cutting tools and their operation] Abrazivnye instru-
menty i ikh ekspluatatsiia. Moskva, Gos.nauchno-tekhn.izd-vo
mashinostroit.lit-ry, 1959. 254 p. (MIRA 12:8)
(Grinding wheels) (Abrasives)

MALOV, A.N., kand.tekhn.nauk; BABKIN, S.I., kand.tekhn.nauk; VOLKOV, S.I.,
kand.tekhn.nauk; GORODETSKIY, I.Ye., prof., doktor tekhn.nauk;
GOROSHKIN, A.K., inzh.; DOSCHATOV, V.V., kand.tekhn.nauk; ZAMALIN,
V.S., inzh.; ISAYEV, A.I., prof., doktor tekhn.nauk; KEDROV, S.M.,
kand.tekhn.nauk; MARDANYAN, M.Ye., inzh.; PANCHENKO, K.P., kand.
tekhn.nauk; SEKRETEV, D.M., inzh.; STAYEV, K.P., kand.tekhn.nauk;
SYROVATCHENKO, P.V., inzh.; TAURIT, G.E., inzh.; EL'YASHEVA, M.A.,
kand.tekhn.nauk; KOVAN, V.M., prof., doktor tekhn.nauk, glavnyy red.;
MARKUS, M.Ye., inzh., red. [deceased]; SOKOLOVA, T.F., tekhn.red.

[Manual for mechanical engineers; in two volumes] Spravochnik tekhnolo-
loga mashinostroitelia; v dvukh tomakh. Glav.red. V.M.Kovan. Chleny
red.soveta B.S.Balakshin i dr. Moskva, Gos.nauchno-tekhn.izd-vo
mashinostroit.lit-ry. Vol.2. Pod red. A.N.Malova. 1959. 584 p.
(MIRA 12:11)

(Mechanical engineering)

Kendall, S.

THE LIFE OF

Индонезия и **ЮАР**,
Малайзия

[illegible]

Ed. (title page): To. H. Müller, Doctor of Philosophy.
Ed. (inside book): L. E. Beyer, Publisher.
Managing Ed. for Literature in German and English:
(Munich): V. V. Rohrbach, Publisher.

1530-1535

COMMENT: This collection of articles deals with problems of editing and printing of articles, the theory of editing, the organization of the editorial office, the selection of articles, the preparation of articles, the action of editors, copy handling, and the general management of the editorial office. The articles are written by a number of experienced editors and are of great interest to the editorial office. I highly recommend this collection of articles and printing office. It is a valuable reference for all editors and printers.

[illegible]

Principles, Pt. 8. Principles of High-Productivity Grinding and the Automation

Gondrat'yev, A. I. [Institute of Technical Sciences, Moscow]. Results of investigation and experience of introducing high-speed grinding of wheels into operation of high-speed grinding with porous grinding wheels is discussed. Advantages, wheel life, and economic usefulness of this type of grinding operation are indicated. The author recommends the accelerated construction of grinders and wheels for speeds of 80-90 m/sec.

Medvedev, B. N. (Candidate of Technical Sciences). Results of an investigation of the effect of contactless grinding with wide grinding wheels on the surface quality of cast-iron parts.

Appendix 1. 2. (continued, of Technical Sciences). Characteristics of the properties of carbon in the case of such characteristic features as the grinding of carbon in the form of ball-chambered plates. The formation of nodules instead of edges, and the content of insoluble additive in the dissolved. The relationships between temperature, grinding, pressure, time and wear, speed, and productivity are outlined. The authors indicate the productivity through higher speeds and more intensive grinding.

S/121/60/000/010/003/015
A004/A001

AUTHOR: Kedrov, S. M.

TITLE: Investigating the Circular Grinding Process With Abrasive Belts

PERIODICAL: Stanki i Instrument, 1960, No. 10, pp. 10-13

TEXT: The author presents results of investigations carried out on circular and centerless grinding machines with abrasive belts made of sandpaper on a cloth base (GOST 5009-52 for dry grinding) by the Chelyabinsk abrazivnyy zavod (Chelyabinsk Abrasive Plant) ChAZ. Grinding between centers was carried out on the 3153 circular grinding machine of the Khar'kovskiy stankostroitel'nyy zavod (Khar'kov Machine Tool Plant) with abrasive belts of 4,000 x 50 mm. Specimens of 50 x 400 mm of 45 grade steel in the natural and hardened state were ground without coolants and with cooling by mineral oils with oleic acid additives as surface-active agent. The following grinding conditions prevailed: belt speed of 20 and 35 m/sec, rotating speed of the workpiece = 75 rpm, longitudinal speed of workpiece = 2.5 m/min. Grinding efficiency and surface finish were determined, the former by the mean metal removal per minute Q_m in gram/min and by the specific metal removal per minute Q_g in gram/kw.min. The following factors were established

Card 1/7

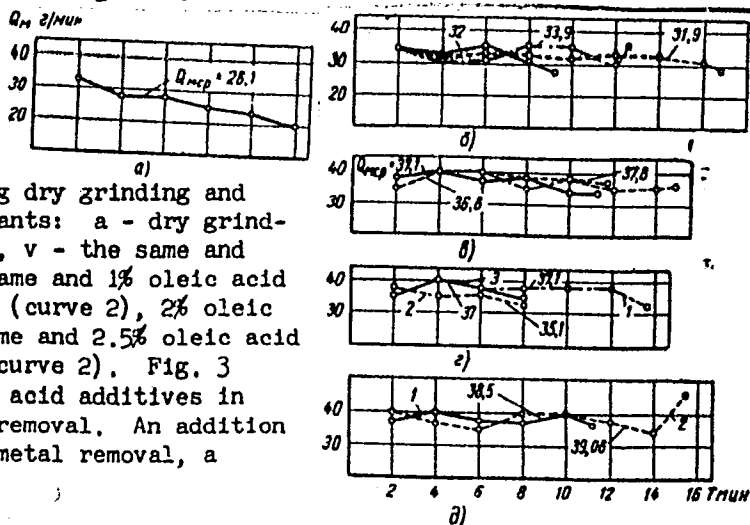
S/121/60/000/010/003/015
A004/A001

Investigating the Circular Grinding Process With Abrasive Belts

as a result of the investigations: 1) the effects of coolants and surface-active additives on the metal removal.

Fig. 2 shows the effects of the grinding duration on the metal removal during dry grinding and grinding with various coolants: a - dry grinding, b - spindle oil No. 2, v - the same and 0.5% oleic acid, g - the same and 1% oleic acid (curve 1), 1.5% oleic acid (curve 2), 2% oleic acid (curve 3), d - the same and 2.5% oleic acid (curve 1), 3% oleic acid (curve 2). Fig. 3 shows the effects of oleic acid additives in mineral oils on the metal removal. An addition of up to 2% increases the metal removal, a

Figure 2:



Card 2/7

S/121/60/000/010/003/015
A004/A001

Investigating the Circular Grinding Process With Abrasive Belts

tests of normal electrocorundum and white corundum are stated. It follows from these tests that white electrocorundum (EB46) is more efficient than normal electrocorundum (E46). 4) The effects of the speed of the abrasive belts were investigated at speeds of 20 and 35 m/sec. Based on the results obtained, the author recommends to grind carbon steels at a speed in the range of 20 - 25 m/sec. 5) The effects of steel hardness on the efficiency of the grinding operation was tested with the ChAZ 346CT (E46ST) abrasive belt during the grinding of the 45 grade steel in various states. The

Figure 5:

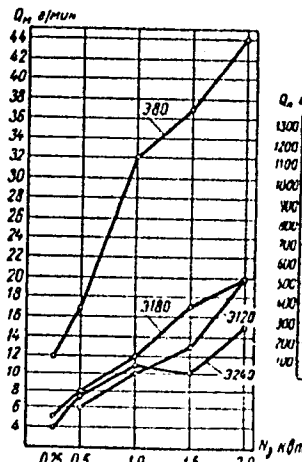


Figure 6:

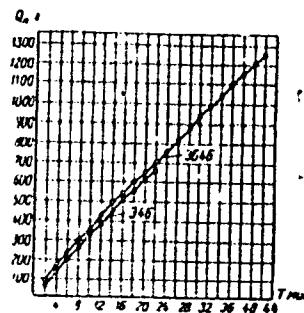


Рис. 6.

Card 4/7

S/121/60/000/010/003/015
A004/A001

Investigating the Circular Grinding Process With Abrasive Belts

test results showed that metal removal depends to a great extent on the hardness of the steel to be machined and may decrease by 2.5 times. The surface finish was tested with abrasive belts of 46, 80, 120, 180, and 240 grain size, at speeds of 20 and 35 m/sec and loads corresponding to $N_p = 0.25, 0.5, 1.0, 1.5$ and 2 kw, with transformer oil cooling + 3% oleic acid. The results show that the surface finish quality obtained at 35 m/sec is much higher than that at 20 m/sec. In the course of time the surface finish is improved because of the abrasive grains becoming duller. The results of investigating the effects of the load of the abrasive belt on the surface finish showed that the latter improves from the 5th to the 6th class if the load on the abrasive belt of 80 grain size increases. If belts of 120 and 180 granularity are used, a surface finish of the 7th class is obtained, while belts of a grain size of 240 ensure the 7th or 8th class of surface finish. The economy of the grinding process was rated by determining the cost of removing one gram of metal according to the following formula:

$$C = \frac{C_b}{Q_n} + \frac{E_1 t}{Q_n} + \frac{E_1}{Q_m}, \text{ where } C = \text{cost of removing one gram of metal in kopecks,}$$

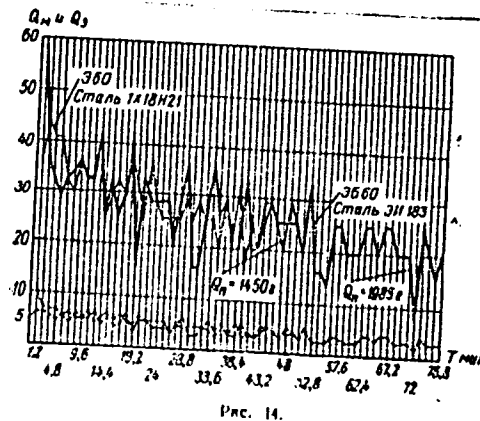
Card 5/7

S/121/60/000/010/003/015
A004/A001

Investigating the Circular Grinding Process With Abrasive Belts

t = belt replacement time in minutes, Q_m = metal removal in gram per minute.
The author then presents test results of centerless external grinding operations carried out on the 35180 (3B180) centerless grinding machine fitted for operation with abrasive belts. The grinding of carbon steel tubes of 60 mm diameter of T 15 grade steel showed an average metal removal of 75 gram/min, while the specific removal rate amounted to 14 gram/kw.min. Fig. 14 presents the results of grinding the stainless steel grades 1X18-21 (1Kh18N21) and 3X183 (EI183).

Figure 14:



Card 6/7

S/121/60/000/010/003/015
A004/A001

Investigating the Circular Grinding Process With Abrasive Belts

hardness of the rubber is lowered from 50 - 65 to 20 - 30, metal removal decreases by 2.5 times. The author concludes by emphasizing the fact that abrasive belt grinding yields a specific metal removal in the range of 16 - 19 gram/kw.min, while the corresponding figure for grinding with ceramic disks amounts to 4 - 7 gram/kw.min. There are 14 figures and 4 references: 3 US and 1 Soviet.

Card 7/7

VINNIK, L.M.; GRINBERG, R.Ya.; KAMINSKIY, Ya.A.; KLEPIKOV, V.D.; KUZNETSOV, A.M.; KUCHENEV, N.I.; STRUZHESTRAKH, Ye.I.; TISHIN, S.D.; KHARITONOV, A.B.; TSEYTS, I.E.; SHAPIRO, I.I.; SHAPIRO, M.Ya.; ANAN'YAN, V.A., retsenzent; VASIL'YEV, D.T., retsenzent; GORETSKAYA, Z.D., retsenzent; KARTSEV, S.P., retsenzent; KEDROV, S.M., retsenzent; KOMISSARZHEVSKAYA, V.N., retsenzent; KOPERBAKH, B.L., retsenzent; KORBOV, M.M., retsenzent; LEONOV, N.I., retsenzent; LUR'YE, G.B., retsenzent; NOVIKOV, V.F., retsenzent; GAL'TSOV, A.D., red.; VOL'SKIY, V.S., red.; KHISIN, R.I., red.; SEMENOVA, M.M., red. izd-va; MODEL', B.I., tekhn.red.

[Reference book for establishing norms in the manufacture of machinery; in 4 volumes] Spravochnik normirovshchika-mashinostroitelia; v 4 tomakh. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry. Vol.2. [Establishing technical norms for operating machine tools] Tekhnicheskoe normirovanie stanochnykh rabot. Pod red. E.I.Struzhestrakha. 1961. 392 p.

(MIRA 14:8)

(Industrial management) (Machine tools)

VOLKOV, S.I., kand. tekhn. nauk [deceased]; GORODETSKIY, I.Ye., doktor tekhn. nauk, prof. [deceased]; GOROSHKIN, A.K., inzh.; DOSCHATOV, V.V., inzh.; ZAMALIN, V.S., inzh.; KEDROV, S.M., kand. tekhn. nauk; MALOV, A.N., kand. tekhn.nauk, prof.; MARDANYAN, M.Ye., inzh.; PANCHENKO, K.P., kand. tekhn. nauk; ROZHDESTVENSKIY, L.A., kand. tekhn. nauk; SEKRETEV, D.M., inzh.; SYROVATCHENKO, P.V., kand. tekhn. nauk; TAURIT, G.E., inzh.; EL'YASHEVA, M.A., kand. tekhn. nauk; YAKUSHEV, A.I., doktor tekhn.nauk, prof.; KOVAN, V.M., doktor tekhn.nauk, prof., red. [deceased]; SERGEYEV, V.M., inzh., red. izd-va; CHERNOVA, Z.I., tekhn. red.; EL'KIND, V.D., tekhn. red.

[Handbook for the mechanical engineer] Spravochnik tekhnologa-mashinostroitelia; v dvukh tomakh. Glav. red. V.M.Kovana. Moskva, Mashgiz. Vol.2. 1963. 912 p. (MIRA 16:7)
(Machinery--Design and construction)

KUDINOV, V.A.; KEDROV, S.S.; YERMAKOV, G.A.

Vibration of double-sided vertical boring and turning lathes.
Stan.i instr. 32 no.6:17-18 Je '61. (MIRA 14:6)
(Lathes—Vibration)

S/121/62/000/007/002/006
D040/D113

AUTHOR: Kedrov, S.S.

TITLE: Vibrofeelers and vibrometers for vibration measurements in machine tools

PERIODICAL: Stanki i instrument; no. 7, 1962, 17-20

TEXT: The design and operation is described of (1) a hand feeler for quickly measuring vibration at different points on machine tools, and (2) a "seismic" vibrometer for stationary use at one point only. Both can easily be fabricated at any plant laboratory and can be used with commercial amplifiers and oscillographs. The needle of the feeler, which has to be moved to the vibrating surface, is connected to a spring to which 4 wire strain gages are attached; the spring is adjusted by a microammeter in the casing of the feeler. The vibrometer has a "seismic" mass consisting of a variable inductor in a casing suspended on 2 leaf springs shaped to

Card 1/2

S/121/62/000/007/002/006
D040/D113

Vibrofeelers and vibrometers...

resist bending in a direction other than that of the vibration being measured. Springs and cotton wool laid around the mass ensure dependable shock absorption and a practically imperceptible dead zone. The vibrometer can be used to measure vertical or horizontal vibration. The feeler, which has a frequency range of measured vibrations from 40 to 1000 cps and an amplitude range of 0.003-0.3 mm, also measured the vibration of cutters with frequencies up to 2100 cps when tested. The vibrometer measures vibration in the same amplitude range, with a lower frequency limit of 50 cps. The design of the instruments is illustrated. There are 10 figures.

Card 2/2

L 16585-63

BDS

S/145/62/000/012/005/011

AUTHOR: Kedrov, S. S., Engineer

TITLE: On the theory of damping resonant vibrations in metal-cutting machine tools 49
48

PERIODICAL: Izvestiya vysshikh uchebykh zavedeniy. Mashinostroyeniya,
no. 12, 1962, 87-97 4

TEXT: The paper presents an investigation of the effect of damping on the stability and resonant vibrations of metal cutting machine tools on the basis of contemporary theory. The author considers a system with two degrees of freedom and positional coupling.

The author concludes from the analytical study that in order to have maximum stability in a system consisting of two vibrating links with positional coupling, the ratio of damping coefficients must have an optimum value. Since in actual systems this happens only occasionally, the stability of the system may be improved by increasing the damping in one link or decreasing it in the other. Even in the case when the damping is so large that

Card 1/2

L 16585-63

S/145/62/000/012/005/011 |

On the theory of damping resonant vibrations...

one or both links become aperiodic, an increase in damping in one link may lessen the stability. In the case of dry friction resonant vibrations are not possible in the system.

ASSOCIATION: Stankoinstrumental'ny institut (Institute of Machine tools and Instruments)

SUBMITTED: September 24, 1961

Card 2/2

KEDROV, S.S. (Moskva)

Damping of a nonconservative system with two degrees of freedom
and a positional connection. Mashinovedenie no.2:35-37 '65.
(MIRA 18:8)

KEDROV, V.

36427. KEDROV, V. -- Barkhatnyye ruki (o khirurge B. S. Pozanove. ocherk).
ogonek, 1949, No. 48, s. 17-18

SO: Letopis' Zhurnal'nykh Statey, No. 49, 1949

KEDROV, V.

At the exhibition of the construction industry. Zhil.-kom.khoz. 3 no.
8:31 Ag '53. (MLRA 6:8)

(Construction industry--Exhibitions)

KEDROV, V.

KEDROV, V., kandidat tekhnicheskikh nauk.

Removal of waste water from laundry plant washrooms. Zhil.-kom.khoz.
4 no.5:18-22 '54. (MLRA 7:9)

1. Starshiy nauchnyy sotrudnik Akademii kommunal'nogo khozyaystva
im. K.D.Pamfilova.
(Laundries, Public)

KEDROV, V.K., Cand. of Vet. Sciences.
Physiology Dept., (VIZh) All Union Institute of Animal Husbandry
"Shall we use synestrol to produce heat in cows?"
SO: Vet. 24 (7) 1947, p. 24 Table of contents
Trans. 121 by L. Lulich

KEDROV, V. K.:

MIRSKAYA, L. M.: (Doctor of Biological Sciences) and
KEDROV, V. K.: (Candidate of Veterinary Sciences, All-Union Institute of Animal
Husbandry).

"Experimental Data on the utilization of estrogens for the purpose of restoring
reproductive capacity of cows."

SO: THE FIGHT AGAINST STERILITY IN AGRICULTURAL ANIMALS, Proceedings of the United
Plenum of the Veterinary and Animal Husbandry Sections, P. 36, Trans. 191, by
L. Lulich, Uncl. Moscow 1949.

KEDROV, L. K.

Mirskaya, L. M. and Kedrov, L. K. "Experimental findings on the utilization of tarragon in the restoration of reproductive ability of cows," In the collection: Iz'braniye nauchnykh soobshcheniy s.-kh. zhivotnykh, Moscow, 1949 (on cover: 1948), p. 16-17

SO: U-4355, 14 August 43, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949.)

KEDROV, V. K.

26600 Gor'oa s oesplodiem sel'skokhozyaystveiiykh zhivotiykh. Sots. Zhivotlovodstvo,
1949, No. 4, s. 79-81.

SO: LETOPIS' NO. 35, 1949

KEDROV. V. K.

25901. KEDROV, V. K. Voprosy vosproizvoditel'noy sposobnosti korov. Trudy Vsesoyuz. nauch.-issled. in-ta zhivotnovodstva, t. XVII, 1949, S. 167-89--Bibliogr: 18 nazv.

So. Letopis' Zhurnal'nykh Statey, Vol. 34, Moskva, 1949

KEDROV, V. K.

"Reproduction of Equine Livestock and Cattle." Sub 28 May 51, Moscow Fur and Pelt
Inst

Dissertations presented for science and engineering degrees in Moscow during 1951.

X VETERINARY SCIENCES - DOCTORATES KEDROV, V. K.
SO: Sum. No. 480, 9 May 55

KEDROV, V. K.

Horse Breeding; Ovulation; Stock and Stock Breeding

Rectal control of ovulation in mares and cows during breeding periods. Sov. zootekh.
7 No. 7, 1952
Kandidat Veterinarnykh Nauk

SO: Monthly List of Russian Accessions, Library of Congress, September 1958², Uncl.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721420004-1"

DUKALOV, Ivan Aleksandrovich; KEDROV, Valentin Konstantinovich;
BABAKHOVA, N.Kh., red.; OLOTOVA, M.I., tekhn. rad.

[Controlling barrenness in cows] Bor'ba s ialovost'iu
korov. Rostov-na-Donu, Rostovskoe knizhnoe izd-vo, 1959.
29 p. (MIRA 12:12)
(Cows) (Sterility in animals)

AUTHORS: Konozenko, I. D., Ust'yanov, V. I., SOV57-28-7-6/55
Kedrov, V. P.

TITLE: Absorption of the Gamma-Ray Emission of Cobalt-60 in
Cadmium Sulfide (Pogloshcheniye gamma-izlucheniya
kobal'ta-60 v sernistom kadmii)

PERIODICAL: Zhurnal tekhnicheskoy fiziki, 1958, Vol. 28, Nr 7,
pp. 1397 - 1401 (USSR)

ABSTRACT: The linear absorption factor of the pressed powdery
cadmium sulfide was determined in dependence on the
pressing effect. It is shown that at pressures of more
than 10^4 kg/cm² the factor remains practically constant
and equal to $0,184$ cm⁻¹, i. e. close to the theoretical
value. The linear factor of the pressed ($P = 11\ 300$ kg/cm²)
crystalline cadmium sulfide was determined as being equal
to $0,189$ cm⁻¹. It is shown that also this value is close
to the theoretical value. The mass absorption factor
of cadmium sulfide was measured immediately ($0,042$ cm²/g)
and determined as sum of the mass absorption factors

Card 1/2

Absorption of the Gamma-Ray Emission of Cobalt-60 304/57-28-7-6/35
in Cadmium Sulfide

of the components ($0,047 \text{ cm}^2/\text{g}$). The results agree well. The mean path of the gamma quanta of cobalt-60 in cadmium sulfide was determined as being equal to 5,3 cm, and the thickness of the half attenuation in the cadmium sulfide with 3,6 cm for the quanta of this energy. There are 5 figures and 8 references, 3 of which are Soviet.

ASSOCIATION: Institut fiziki AN USSR, Kiyev (Institute of
Physics, AS Ukrainian SSR, Kiyev)

SUBMITTED: November 25, 1957

1. Cadmium sulfide--Absorptive properties 2. Cobalt isotopes
(Radioactive)--Applications 3. Gamma radiation--Chemical effects

Card 2/2

A E D A C V

BABICHEV, P.I.; KEDROV, V.S.; PONOMAREV, F.G.; SHAVKIN, G.B., inzhener, redaktor; KHITROV, P.A., tekhnicheskiiy redaktor.

[Handbook for supervisors of passenger trains] Pamiatka kontroli-rulushchemu passazhirskii poezd. Moskva, Gos. transp. zhel-dor. izd-vo, 1953. 153 p. [Microfilm] (MLRA 7:11)
(Railroads--Passenger traffic)

AUTHOR:

KEDROV, V.S.

32-6-42/54

TITLE:

A Laboratory Apparatus for the Determination of the Precipitation Dynamics of Liquids. (Laboratornyy pribor dlya opredeleniya dynamiki osashdeniya v zhidkostyakh, Russian)

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol 23, Nr 6, pp 756-757 (U.S.S.R.)

ABSTRACT:

The present paper describes a new apparatus for the determination of the granulometric composition of particles and fractions in the liquid to be investigated and which are precipitated at various times. The apparatus consists of a filling funnel with glass tube, a metal container with detachable hermetically closing lid, a rotating disk with 6 (detachable) cups the shape of which is adapted to the rotating surface in order that no free parts of the surface are left.

The liquid under investigation is kept for 2 hours in a special vessel in order that sediments may be deposited.

The container of the apparatus is then filled with that part of the liquid which has been freed from sediments, and the remaining part of the liquid with sediments is stirred and then poured into the filling funnel.

The taps are then opened and the rotating disks are set in motion. The cups, which are numbered, then become filled with the liquid

KEDROV, V.S.

KEDROV, V.S., kandidat tekhnicheskikh nauk.

Operation of swimming pools. Gor.khoz.Mosk. 31 no.7:27-29 J1 '57.

(MIRA 10:9)

(Swimming pools)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721420004-1"

GRATSIANSKIY, M.N., kand. tekhn. nauk; KOSTOMAROV, V.M., kand. tekhn. nauk; ALEKSANDROVSKIY, Yu.V., kand. tekhn. nauk; KARAGODIN, V.L., inzh.; KARAGODIN, A.L., inzh.; ANUFRIYEV, V.Ye., kand. tekhn. nauk; KURDYUMOV, M.D., inzh.; DZHUNKOVSKIY, N.N., doktor tekhn. nauk, prof.; ABRAMOV, S.K., kand. tekhn. nauk; KEDROV, V.S., kand. tekhn. nauk; GIBSHMAN, Ye.Ye., prof., red.; YEGOROV, P.A., inzh., red.; VARGANOVA, A.N., red. izd-va; LEIYUKHIN, A.A., tekhn. red.

[Manual for the design, construction and operation of urban roads, bridges and hydrotechnical structures] Spravochnik po proektirovaniyu, stroitel'stvu i ekspluatatsii gorodskikh dorog, mostov i gidrotekhnicheskikh sooruzhenii. Red. kol. E.E. Gibshan, N.N.Dzhunkovskii, P.A.Egorov. Moskva, Izd-vo M-va kommun.khoz. RSFSR. Vol.2. [Hydrotechnical structures] Gidrotekhnicheskie sooruzhenia. Red. toma: N.N.Dzhunkovskii, M.D.Kurdiumov. 1961. 706 p. (MIRA 15:3)
(Hydraulics) (Hydraulic engineering)

AL'TSHUL', A.D.; KENDROV, V.S.

[Principles of hydraulics, water supply, and sewerage systems; practical instructions and test assignments for students majoring in "Industrial construction and civil engineering" at schools of higher education, in faculties and departments] Osnovy gidravliki, vodosnabzheniia i kanalizatsii; metodicheskie ukazaniia i kontrol'nye zadaniia dlia studentov spetsial'nosti "Promyshlennoe i grazhdanskoe stroitel'stvo" vysshikh uchebnykh zavedenii, fakul'tetov, otdelenii. Izd.2. Moskva, Vysshiaia shkola. 1964. 53 p. (MIRA 17:9)

1.Russia (1923- U.S.S.R.) Ministerstvo vysshego i srednego spetsial'nogo obrazovaniia.

KEDROV, V.V.; KARVATSKIY, M.B.; MOROZOV, N.I.

[Equipment for measuring deformations by wire strain gauges].
Apparatura dlia izmereniia deformatsii s pomoshch'iu provolochnykh
tenzodatchikov. Moskva, Gos. izd-vo obor. promyshl. 1957. 42 p.
(Moscow. Tsentral'nyi aero-gidrodinamicheskii institut. Trudy,
no. 698). (MIRA 11:7)

(Strain gauges)
(Deformations(Mechanics)--Measurement)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721420004-1"

PHASE I BOOK EXPLOITATION

SOV/6583

Kedrov, V. V., M. B. Karvatskiy, and N. I. Morozov.

Apparatura dlia izmereniya deformatsiy s pomoshch'yu
provlochnykh tenzodatchikov (Instrumentation for
Deformation Measurement by Wire-Type Strain Gages)
Moscow, Oborongiz, 1957. 42 p. (Series: Moscow.
Tsentral'nyy aero-gidrodinamicheskii institut.
Trudy, No. 698) No. of copies printed not given.

Resp. Ed.: V. V. Kedrov.

PURPOSE: The book is intended for technical personnel
engaged in experimental investigation of machine
strength by wire-type strain gages.

COVERAGE: Some widespread types of instrumentation,
fundamentals of their operation, and experi-
mental techniques are described. Basic ..

Card 1/2

1/2

KEDROV, V.Z., inzhener, Novosibirsk.

Checking and placing railroad curves in the plan. Zhel.dor.
transp. 37 no.10:55-58 0 '55. (MLRA 9:1)

(Railroads--Curves and turnouts)

the evaluation
KEDROV, V. Z., Cand Tech Sci — (diss) — "Errors in ~~evaluating~~ and correcting^{ing}
railroad curves." Mos, 1958. 13 pp (Min of Railways USSR, All-Union Sci Res
Inst of Railroad Transport), 100 copies (KL, 18-58, ~~22~~ 99)

-56-

YEDROV, Yu.; KRYUKOV, V.; LITVINOV, I., 1.

To make it interesting for students. Prof.-tech. obs. 21 no.2:
27 F 164. (MIRA 17:9)

1. Professionalno-tehnicheskoye uchilishche No.1, Moskva.

KEDROV.ZIKHMAN, A.A. [Kedrau-Zikhman, A.A.]

Changes in the resistance of cauliflower seeds to unfavorable
storage conditions due to the effect of boron fertilizers applied
to seed plants. Vestsi AN BSSR. Ser. bial. nav. no.3:32-36 '61.
(MIA 14:10)

(CAULIFLOWER) (SEEDS--STORAGE)
(PLANTS, EFFECT OF BORON ON)

TURBIN, N.V.; ~~KEDROVA~~-LIXHMAN, L.V.

Breeding self-pollinated corn lines and evaluating them by their
combining ability. Sbor. nauch. rab. Bel. otd. VBO no.3:127-136
'61. (MIRA 14:12)

(Corn breeding)

bc

Influence of lime in phosphoric acid mobilization of soil. O. K. KENNEDY-ZEHMAN (Trans. Sci. Inst. Fertilizers, Moscow, 1929, No. 41, 107-108).—Lime releases soluble phosphates by forming organic phosphorus compounds which are readily attacked by micro-organisms. The calcium also replaces iron and aluminum in phosphates. Calcium oxide is more effective than the carbonate.

CHEMICAL ABSTRACTS.

1ST AND 3RD GROUPS										2ND AND 4TH GROUPS									
PROCESSES AND PROPERTIES INDEX																			
<p>15</p> <p>Limiting the podzol soils of White Russia as a means for increasing their productivity. OSEKAR SHENMAN KEDROV. <i>Proc. 2nd Intern. Congr. Soil Sci., Leningrad, 1930, IV, 135-44</i> (1933).—Although these soils are not extremely acid, mostly pH 5-6, liming has a favorable effect upon yields and quality of crops, and apparently increases the available P_2O_5 in the soil.</p> <p>C. I. SCHOLLENBERGER</p>																			
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<div style="position: relative; height: 100px;"> CA </div>															<p style="text-align: right; margin-right: 50px;">Khim. Sots. Zem. /S-</p> <p>1st issue problem in the theories of Gedroiz. O. K. Kedrov-Zikhman. <i>Chemization Socialistic Agr.</i> 1933, No. 1, 41-8.—A discussion of the importance of Ca in the base-exchange complex, as expressed in the work of Gedroiz.</p> <p style="text-align: right;">J. S. Joffe</p>															<div style="position: relative; height: 100px;"> </div>														
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<p>Co</p>																										<p>The relation of agricultural plants to soil acidity and liming. O. K. Kedrov-Zikhman. <i>Pedology</i> (U. S. S. R.) 28, 287-301 (1933).—K-Z:—presents data on the effects of lime on flax, hemp, poppy seeds, barley, oats, wheat, vetch, corn, clover, timothy, sugar beet, peas and tomatoes. The expts. were conducted in Mitsherlich pots and in field plots. The lime added varied from amts. necessary to satisfy the hydrolytic acidity and exchange acidity in full or partially. In some of the expts., besides</p>																										<p>Pochvoved. 15</p>																									
<p>the lime, fertilizers were used: N, P₂O₅ and K₂O in various combinations, and each one of the ingredients by itself. The expts. were conducted for 2 years on 3 varieties of podzols and on an acid peat. The author gives the optimum p_H (aq. ext.) for the plants tested as follows: barley 6.5-7.3, wheat 6.5-7.3, oats 7.2-7.5, corn about 6.8, buckwheat 7.1-7.4, vetch 6.5-6.8, peas 6.8-7.4, rye-grass 6.8-7.2, red clover 6.0-6.7, timothy 5.0, flax 6.3-6.8, hemp 7.1-7.4, poppy 6.8-7.2, mustard 7.0-7.5, sunflower 6.0-6.8, tomatoes 6.2-6.7, beets 6.3-6.7 and cabbage 6.7-7.4.</p>																										<p>J. S. Joffe</p>																																																			
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<p>15</p> <p>The influence of the composition of the absorbed cations on the development of barley and clover. (O. K. Kedrov-Zikhman and O. E. Kedrova-Zikhman. <i>Khimicheskiy Sotsializm</i> (Moscow) 1934, No. 12, p. 21. A podzol soil was treated with the carbonates of Ca, Mg, K, Na and Mn in quantities to satisfy the hydrolytic acidity, as determined by the Calky method. Some samples were prepared with a combination of the cations, and an excess of Ca was added to a no. of combinations. A complete fertilizer was added, the soils were placed in Mitscherlich pots, and planted with barley and clover. The soils receiving lime up to 50% of the unsat. gave a high yield of barley grain. An increase in lime beyond this point decreased the grain yield. Satisfying 80% of the unsat. with Mg increased the yield of grain and straw.</p> <p>Above this point the increase in Mg rapidly decreased the yield. The addition of mixtures of Ca and Mg to sat. the soil from 60 to 100% had no injurious effects and the yields were just as good as those with Ca alone at 50% satn. Thus the injurious effects of Mg are diminished upon the addition of Ca. Normal yields of barley were obtained with Ca and Mg sol. in a 5 to 1 water soil ext. at ratios of 13.4 Ca to 1 Mg down to 1Ca:2.3Mg. With clover a 20% satn. of the hydrolytic acidity with Ca and 50% with Mg gave the highest yield in pot expts. With mustard, winter wheat, buckwheat and beans the results were analogous. The tolerance to high concns. of Mg as compared with Ca varies somewhat with the individual crops. Addition of Na_2CO_3 up to 30% and of K_2CO_3 up to 10% satn. showed favorable results. An increase of K markedly reduced the grain yield. MnCO_3 also gave increased yields, but the limits of favorable effects were a good deal lower—with respect to percentage satn.—than with the other cations.</p> <p>J. S. Joffe</p>																			
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<p>05</p> <p>The utilization of calc tufa-travertine. O. K. Kedrov-Zikhman and V. I. Vinogradov. <i>Khimicheskiy Sotsialist. Zemledel'ye</i> (Moscow) 1933, No. 1, 41-53.---Travertine as a source of lime was compared with ground limestone and chemically pure CaCO_3 on podzol soils with clover, spring wheat, vetch and oats, and beans. This material compared favorably with other lime materials even without grinding. When ground, the travertine was superior to ground limestone. A no. of analysis of travertine and of the soils used is given. J. S. Joffe</p> <p>15</p>																																																																																																																																																											
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<p>BC</p> <p>3-III-1</p> <p>Effect of admixture of magnesium with lime applications. O. K. ZERNMAN-KRIBON (Udov. Uroshai, 1938, 2, 186-189).—Application to soil of magnesium carbonate had no injurious effect; it stimulated the effectiveness of calcium carbonate.</p> <p>CHEMICAL ABSTRACTS.</p>																			
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CA

The effectiveness of liming of red clover cultures, depending on the content of magnesium in lime fertilizers. O. K. Kedrov-Zikhman. *Doklady Vsesoyuz. Akad. Nauk SSSR*, 1939, No. 8, 12-18; *Khim. Referat. Zhur.*, 1940, No. 1, 74. — A mixt. $MgCO_3 + CaCO_3$ increases the yield of clover more than does the sep. addn. of $CaCO_3$ or $MgCO_3$. Addn. of it with lime also increases the yield of clover. The similarity of the effects of Mg and Ca in increasing the yield of clover during liming is attributed to the fact that both these elements facilitate the accumulation of the plant carbohydrates. W. R. Hoar

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Mg and B as factors increasing the effectiveness of the liming of the soils of the U. S. S. R. O. K. Nedynov, Zikhman. *Trudy ZSKA*, 6, No. 1, 104 (1940).

Kafm. Referat. Zhur. 4, No. 9, 71 (1941).—Addn. of Mg and B during the liming of the soils increased the yields of clover, alfalfa, lupine, beets, carrots, cabbage, flax, mustard, barley, etc. The effect of Mg and B on grain cultures was smaller. Best results from liming were obtained if B and Mg were added simultaneously. The favorable effect on the yield of plants was observed when B was added at various times and at various phases of the development of the plants.

W. R. Henn

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S.P. 6.

Planting

Influence of lime and trace elements on the yield of kok-saghis and on the accumulation of rubber. O. K. KEDROV-ZHIMAN and O. E. KEDROVA-ZHIMAN (Proc. Lenin Acad. Agric. Sci. U.S.S.R., 1942, No. 9-10, 7-10; Hort. Abs., 1949, 16, 109). - It is quite possible to cultivate kok-saghis on acid podzol soils when they are limed and receive suitable fertilisers. Under these conditions it is advisable that the fertilisers should contain trace elements, particularly boron. Liming very acid podzols has a very marked positive effect on the yield both of roots and seed, and at the same time there is no decrease in the percentage of rubber. It also helps to hasten cultivation. Boron, with liming, assists in increasing yields of roots, of the above ground vegetative organs, and particularly of the seeds; it also results in an increase in the accumulation of rubber. Uranium and manganese, with liming, have a favourable influence on the yield of roots and leaves of kok-saghis, while cobalt increases the yield of roots.

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Application of fertilizers to boggy soils. (I. K. Kabanov-ZIMMAN and N. Z. STANKOV (editors) (Hort. Abs., 1947, 17, 187). Publ. Lenin Acad. Agr. Sci., U.S.S.R., 1940, pp. 40. Various aspects of Russian bog soils are described by several authors with reference to the application of manures, particularly for hemp and kok-saguz. 1228.6254

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Authors : Kedrov-Zikhman, O. K. Academician

Title : Chemistry in agriculture

Periodical : Priroda 3, 11-20, Mar 1954

Abstract : The numerous advantages derived from using chemicals in agriculture, whether for improving the fertility of the soil, or in combating plant and vegetation pests, are discussed. The chemification of agriculture in the USSR is basically accomplished by broad application of fertilizers, above all mineral fertilizers, manufactured by the Soviet Chemical Industry. A comparison between the manufacture and application of mineral fertilizers in pre-Soviet Russia and the present USSR, is presented. Illustrations.

Institution :

Submitted :

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than manure. By adding lime, the quantity of manure can
be reduced to 1/2 without decreasing the yield. I. S. L. ①

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